Contents

Preface	V
INTRODUCTION I. Preliminaries II. Approaches to thinking III. Summary and concluding comments IV. Further reading	1 1 5 15 17
2. SOLVING PUZZLES I. State-action representations II. Problem reduction approach III. Experimental studies IV. Summary and concluding comments V. Further reading VI. Appendix	18 19 24 25 53 55
3. EXPERTISE 1: ADVERSARY PROBLEMS 1. Game trees and the minimax principle II. Artificial intelligence and chess III. Experimental studies of human adversary problem solving IV. Summary and concluding comments V. Further reading	56 56 57 59 72 74
4. EXPERTISE 2: NON-ADVERSARY PROBLEMS I. Expert-novice comparisons II. Development of expertise III. Summary and concluding comments IV. Further reading	75 75 82 89 90
DEDUCTIVE REASONING I. Syllogistic reasoning II. Summary and concluding comments III. Further reading	91 91 110 112
6. INDUCTIVE REASONING I. The four-card selection problem II. Generating and testing hypotheses III. Summary and concluding comments IV. Further reading	113 113 123 130 131

7. DECISION MAKING I. Normative models of risky decision making II. Riskless decision making III. Processing probability information IV. Summary and concluding comments	132 133 138 142 146
V. Further reading 8. DAYDREAMING I. Psychometric approaches II. Experimental approaches to daydreaming III. A conceptual model of daydreaming IV. Summary and concluding comments V. Further reading	148 149 150 153 164 165 166
9. CREATIVE PROCESSES 1. Studies of creative individuals II. Stage analyses III. Increasing idea production IV. Theoretical approaches V. Summary and concluding comments VI. Further reading	167 169 173 178 186 194 195
10. THINKING: THEORETICAL OVERVIEW, PROGRESS AND PROSPECTS I. Modal model assumptions II. Theoretical progress? III. Research trends? IV. Concluding comments V. Further reading	197 198 210 210 211 212
References	213
Authorindex	228
Subjectindex	233